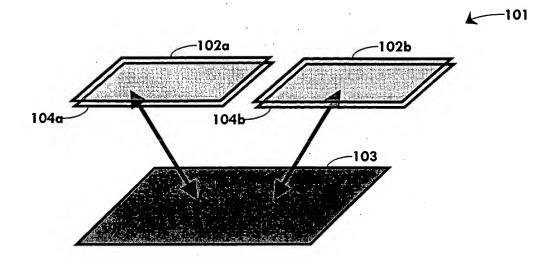
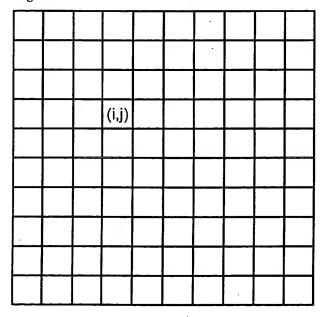
Figures

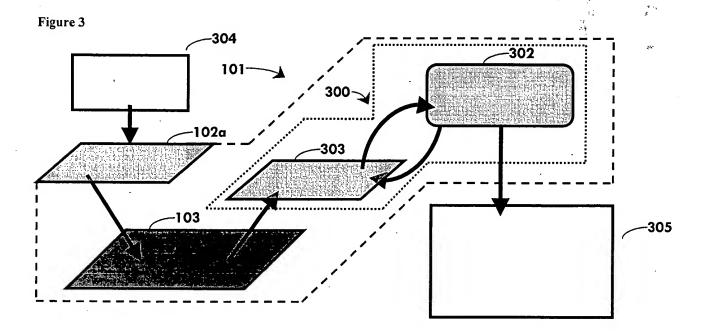
Figure 1

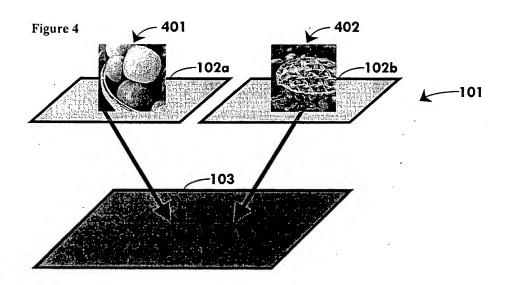


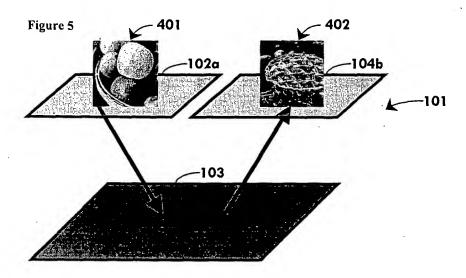


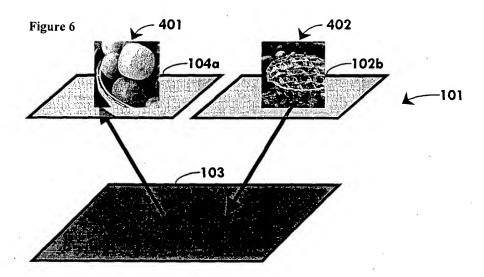


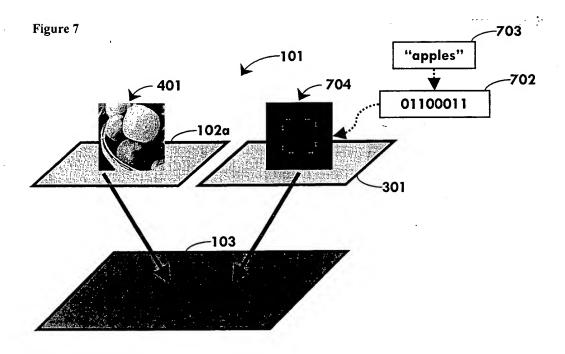
201











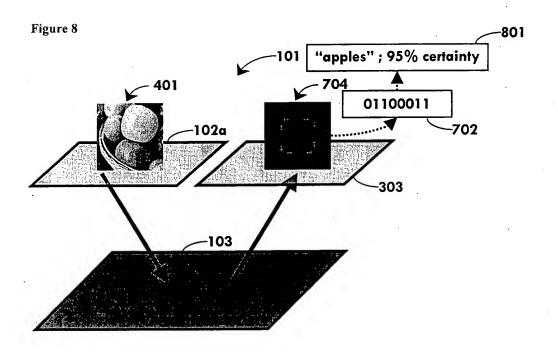
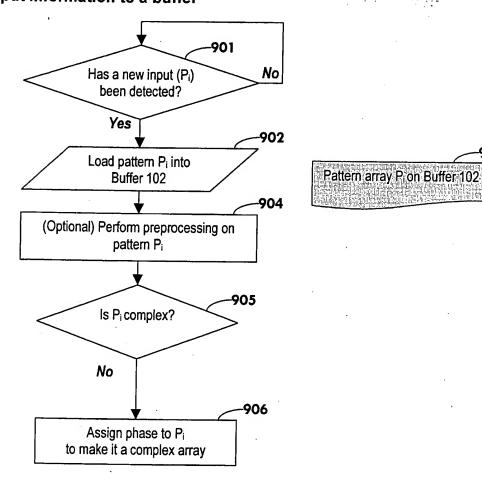


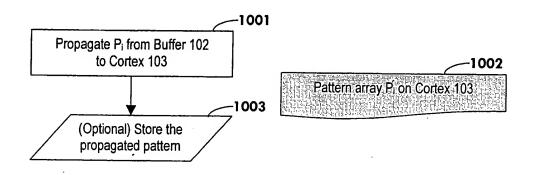
Figure 9
Input information to a buffer

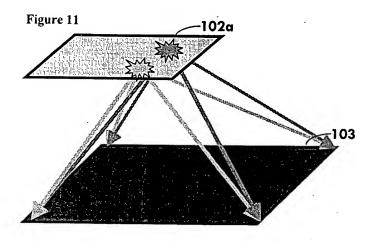


-903

Figure 10

Transport information from buffer to cortex or cortex to buffer





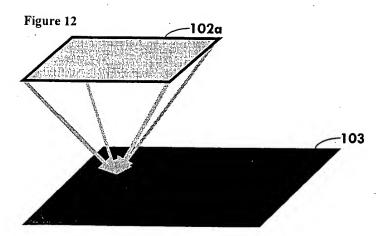


Figure 13

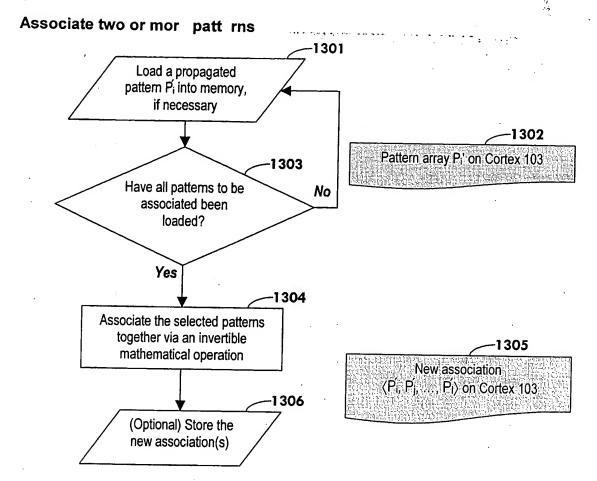


Figure 14

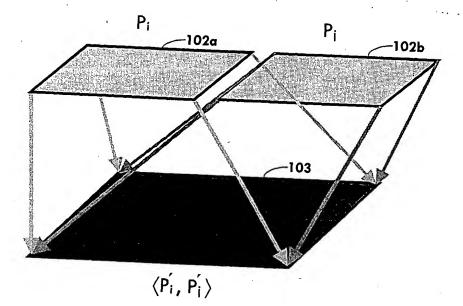


Figure 15

Superpose two or mor associations

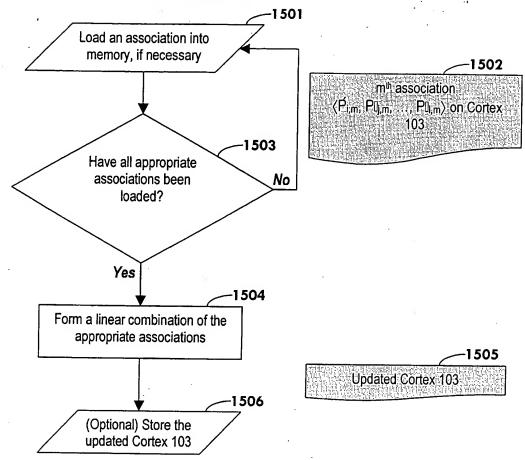


Figure 16

De-associate a pattern from a stored cortex

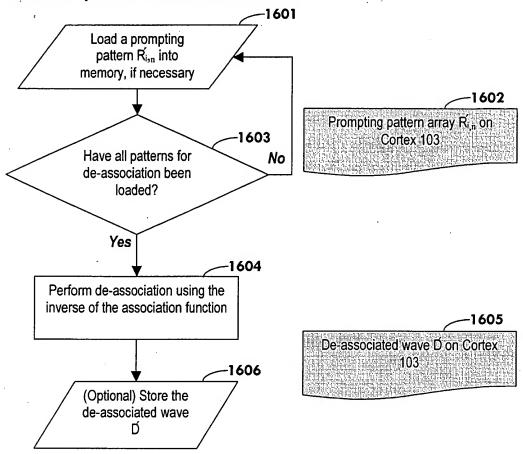


Figure 17

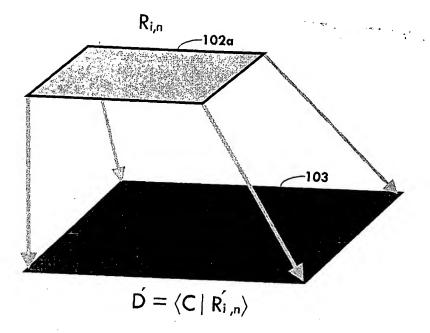


Figure 18

Export buffer information

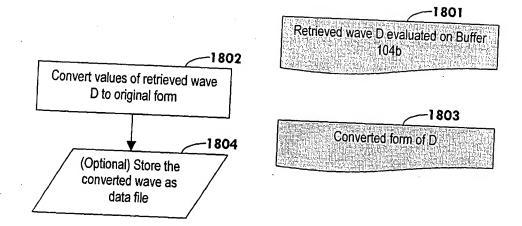


Figure 19

Generate an internal identification pattern (IIP)

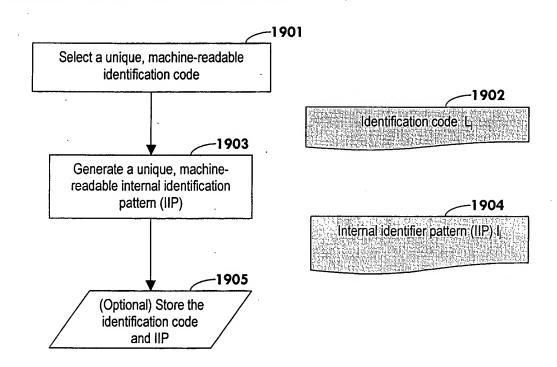


Figure 20

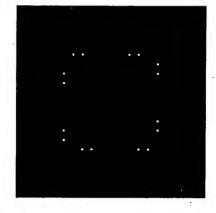


Figure 21

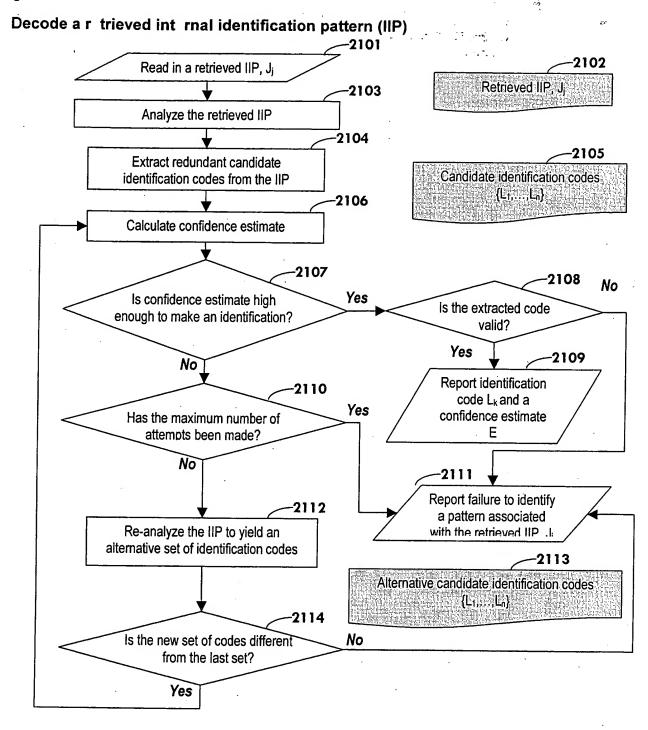


Figure 22

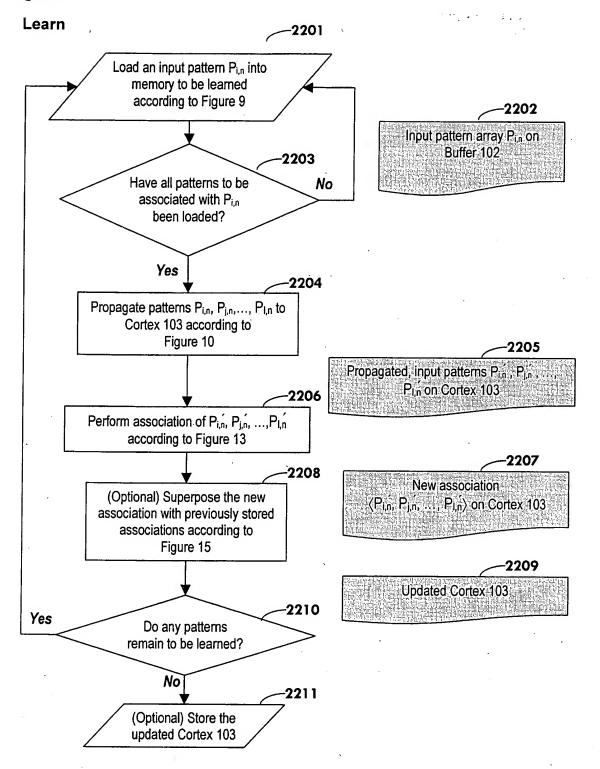


Figure 23

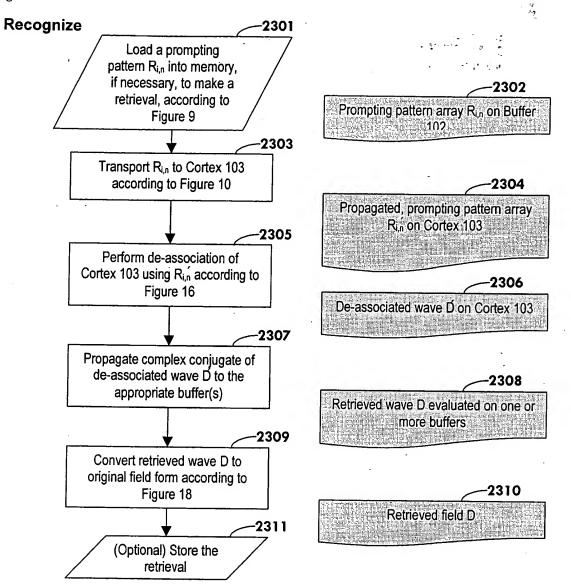


Figure 24

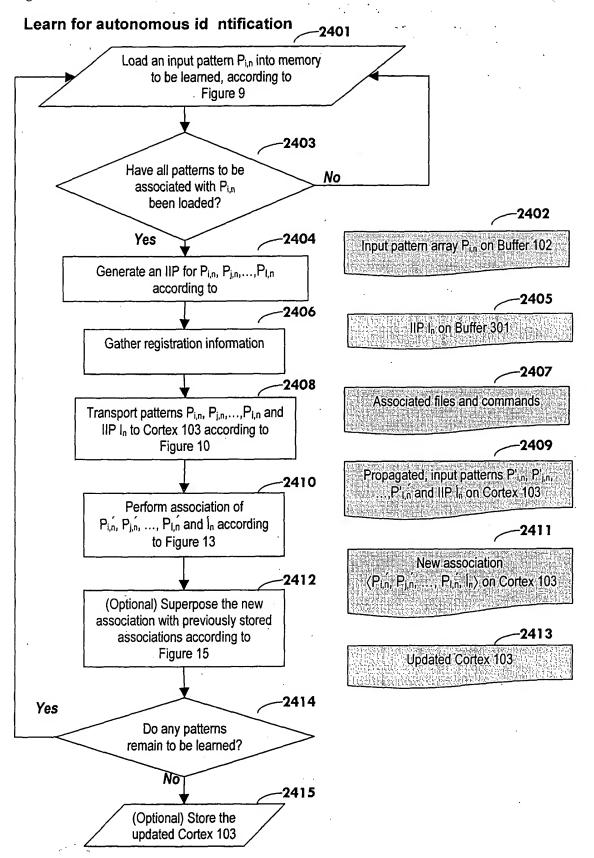
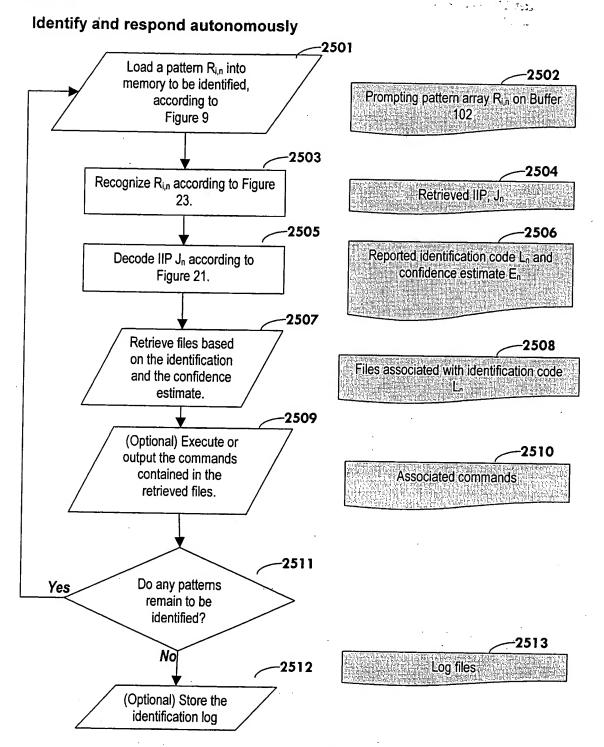


Figure 25



Adaptively improv identification performance through xperi nce

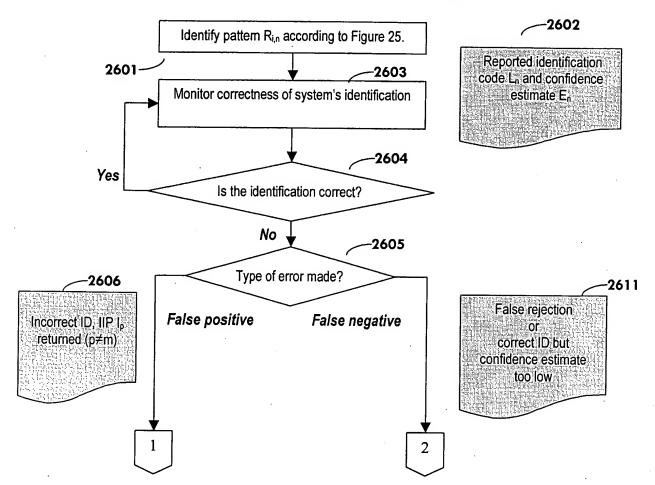
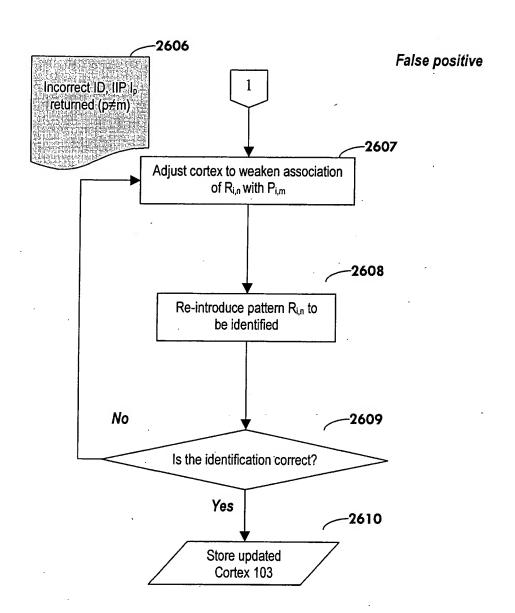


Figure 26 (cont.)

Adaptively improve identification performance through experi nc , continued



Adaptively improve identification performance through experience, continued

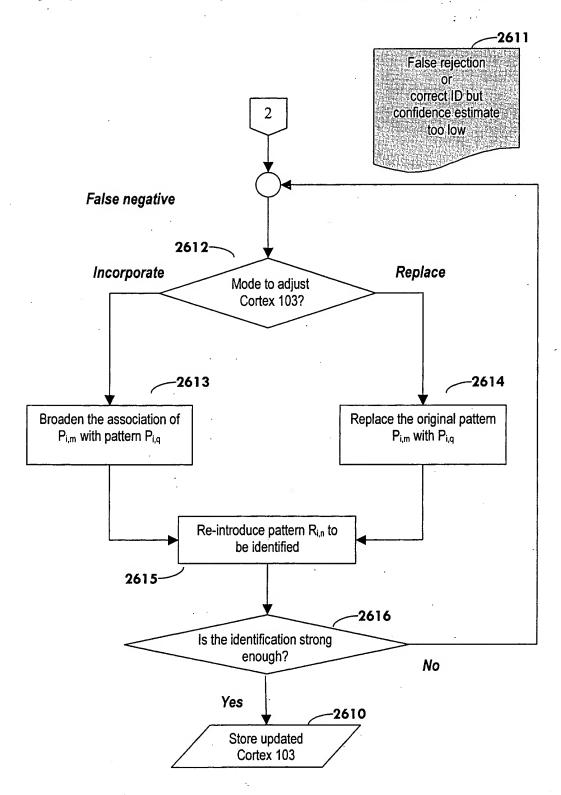
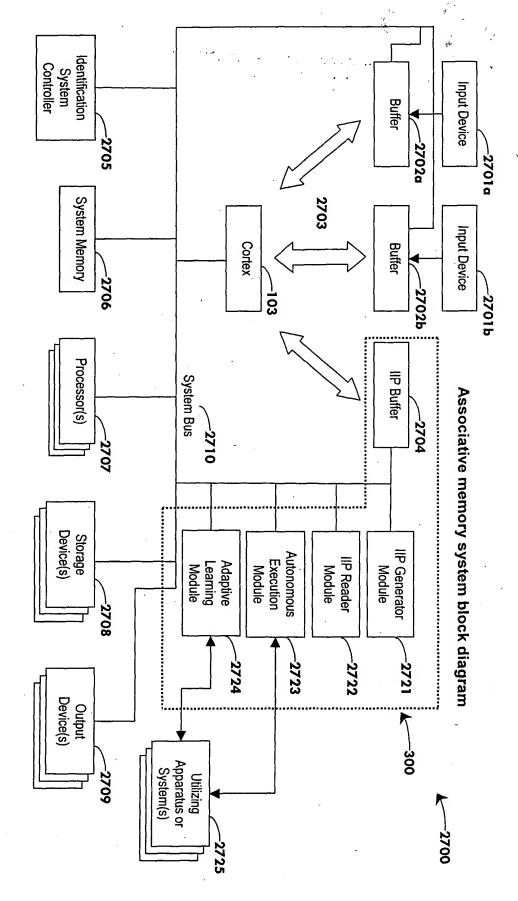
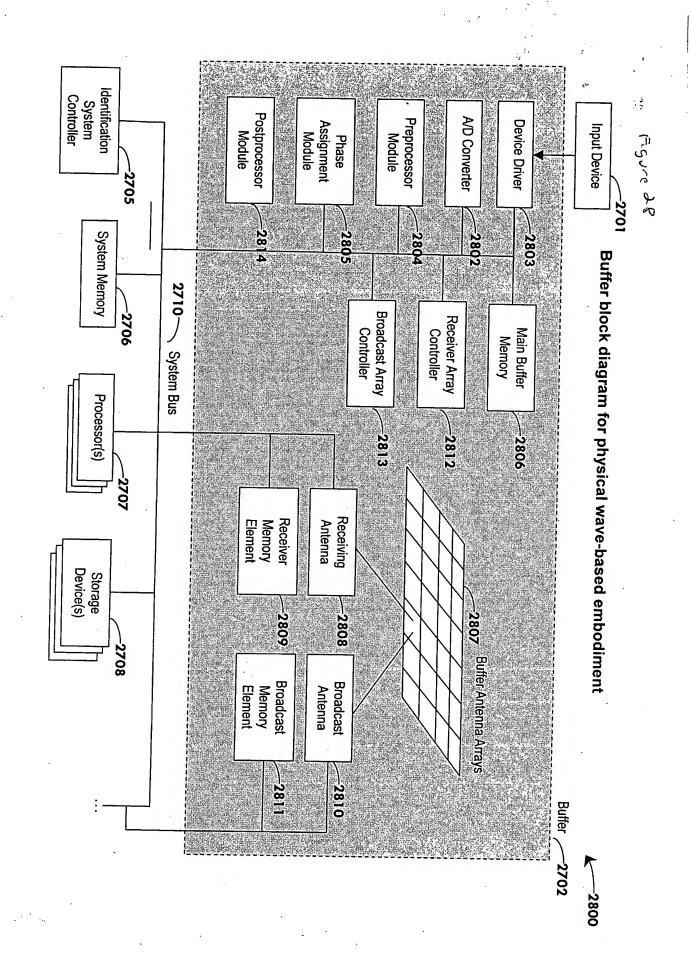
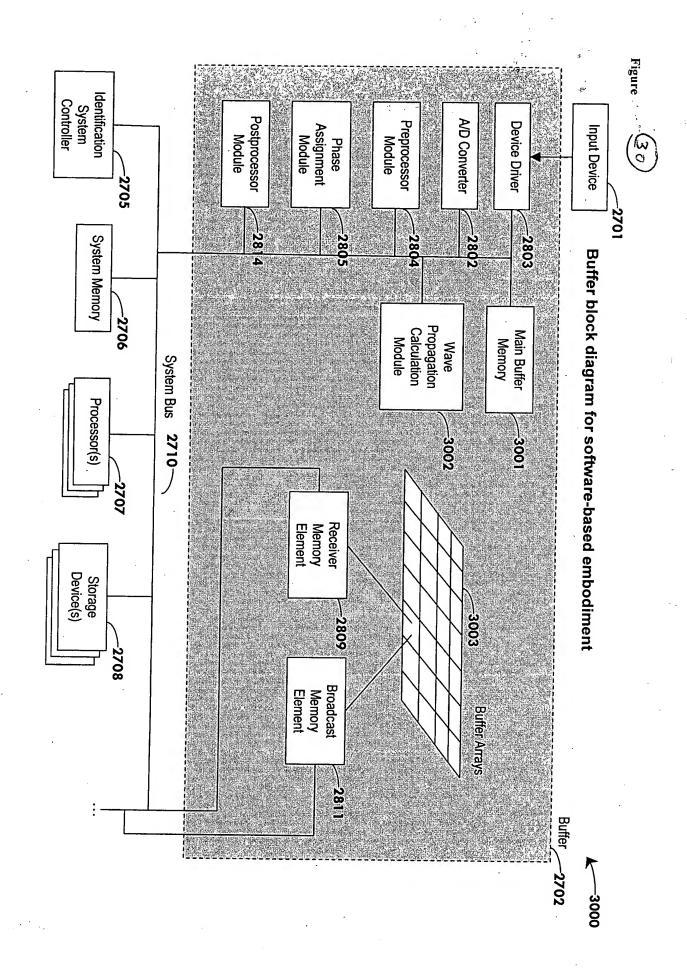


Figure 27



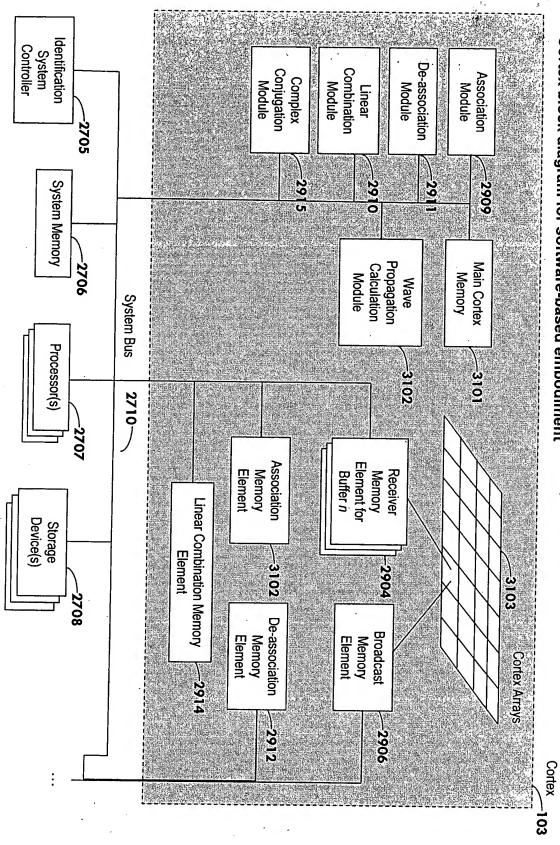


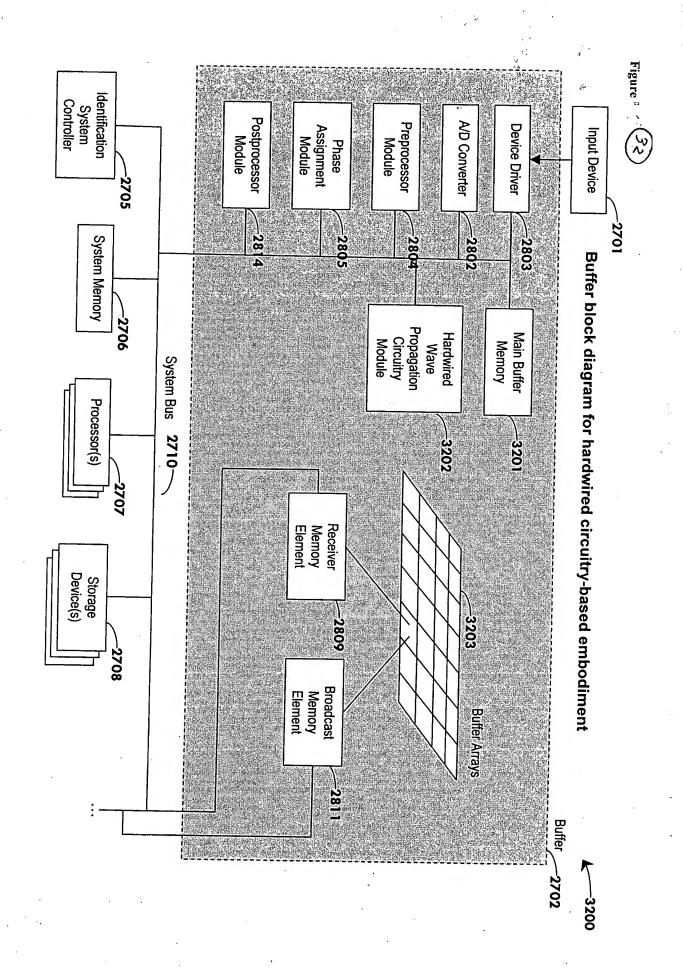
—2900

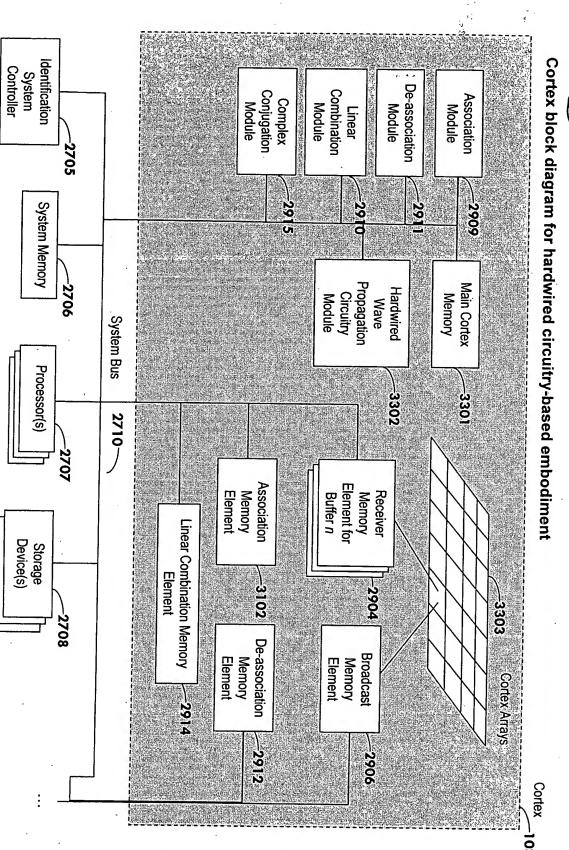




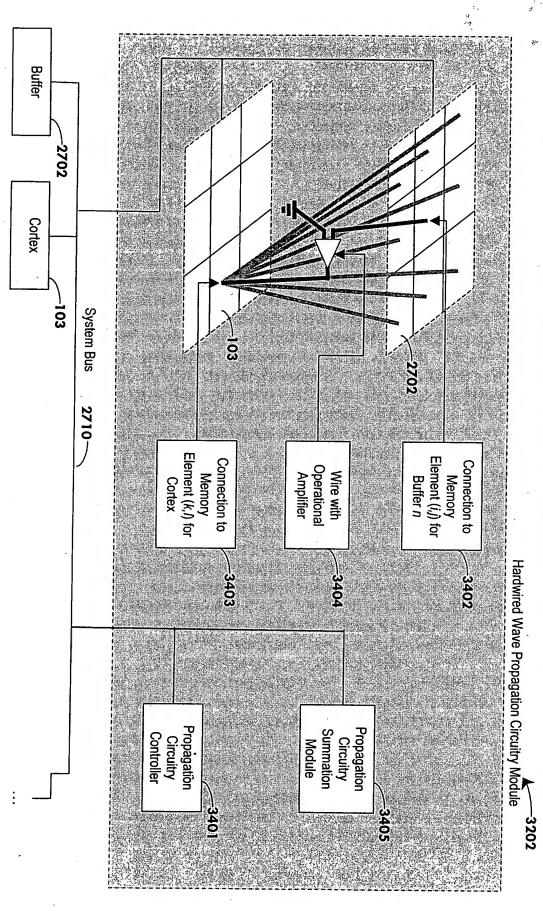
Cortex block diagram for software-based embodiment







Wave propagation circuitry block diagram for hardwired circuitry-based embodiment





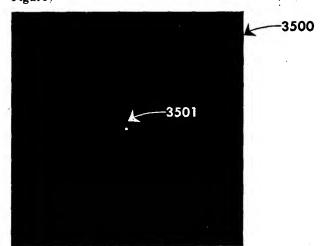


Figure 36

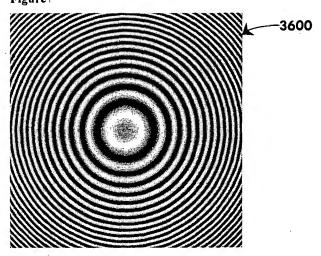


Figure + -37

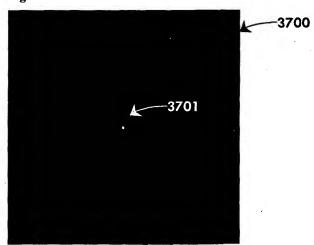


Figure 3800

Figure in 39

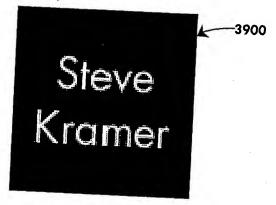
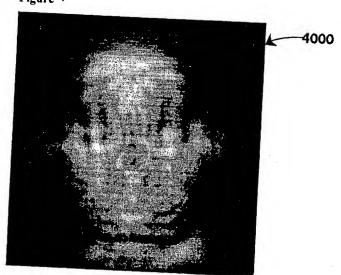


Figure *





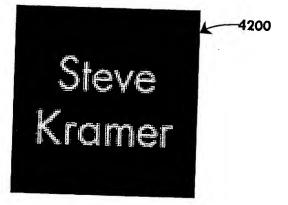
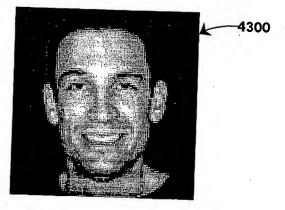


Figure 43



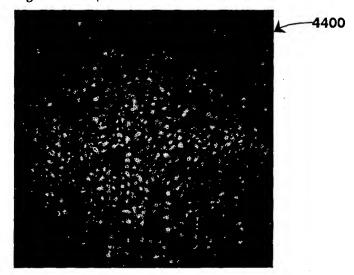


Figure 8 49

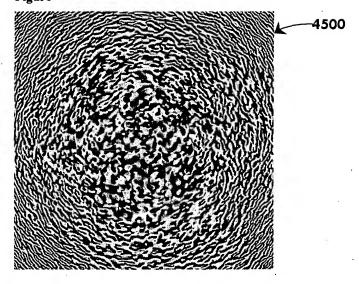
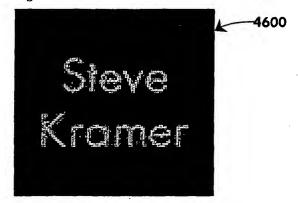


Figure 40



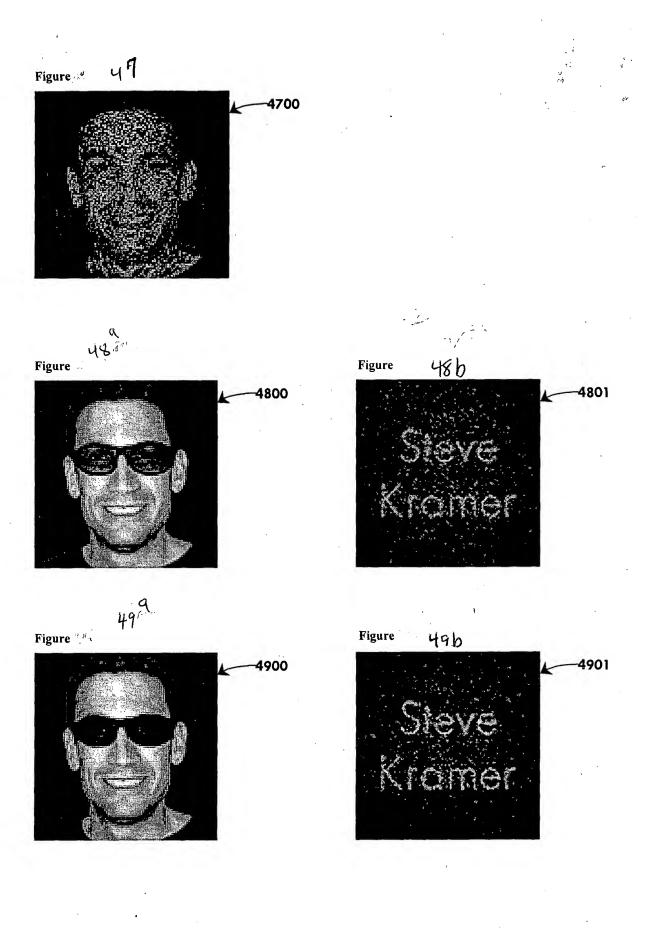
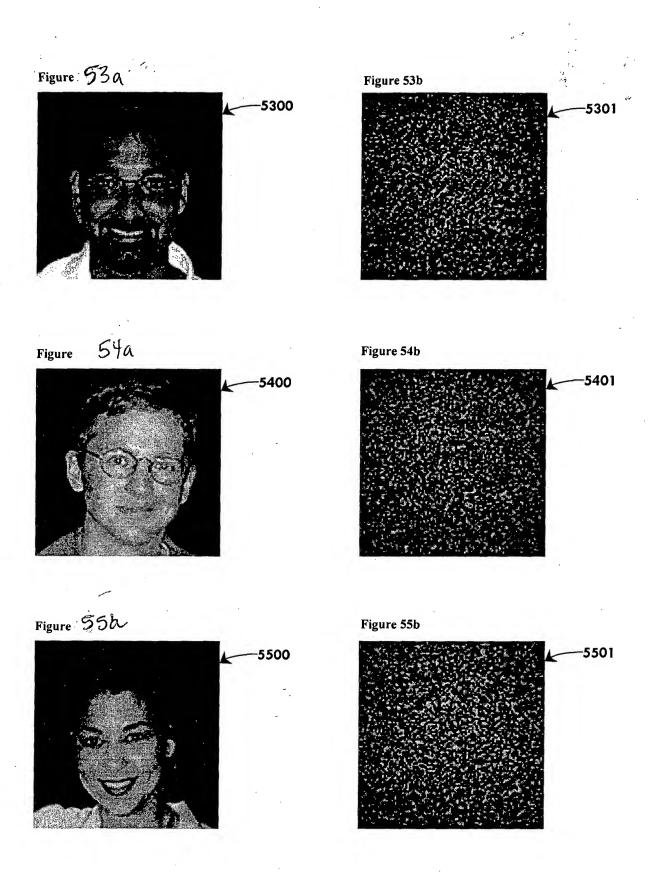


Figure 50a Figure 50b 5000 Figure 510 Figure 51b -5100 -5101 Figure 529 Figure 52b -5200



Figure

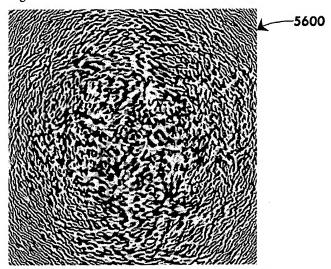
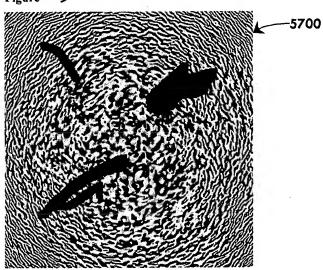


Figure 6



Figure

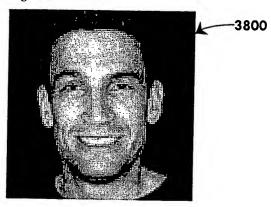


Figure 58b



59a

Figure

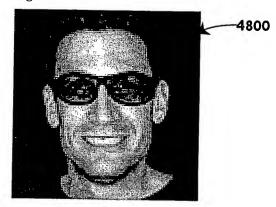
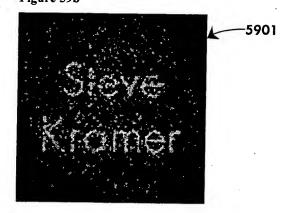


Figure 59b



Figure

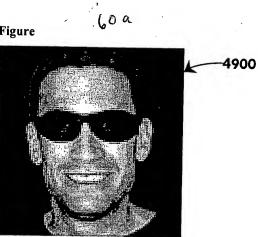
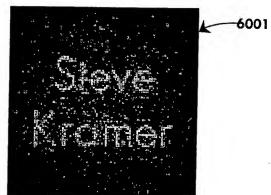
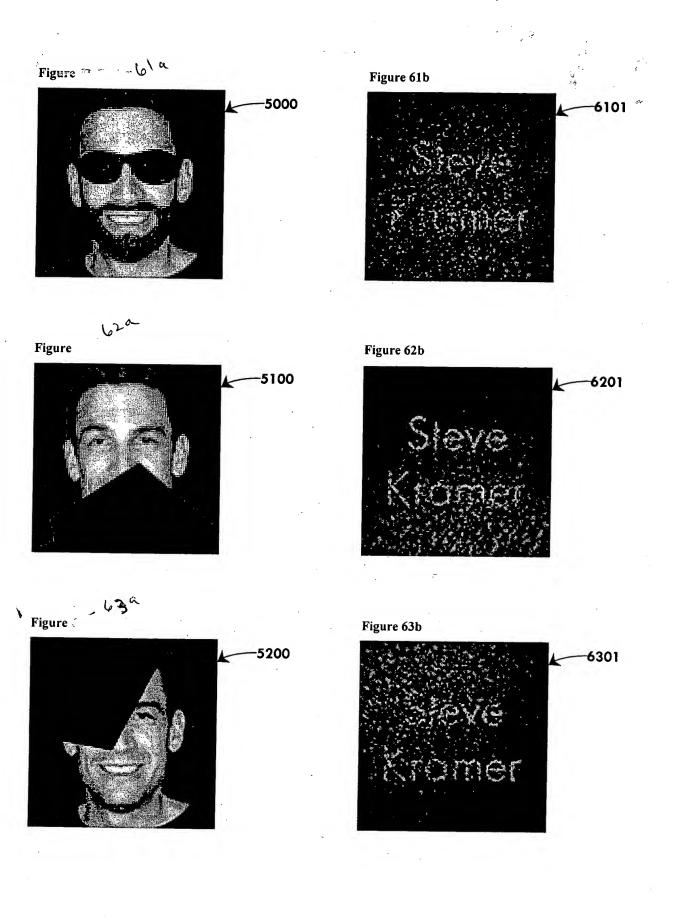
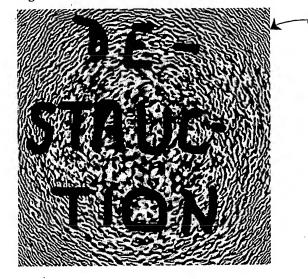


Figure 60b







65a

Figure

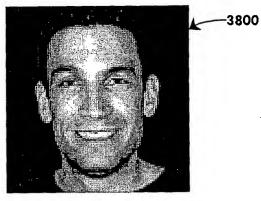


Figure 65b

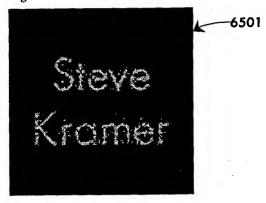


Figure of 669

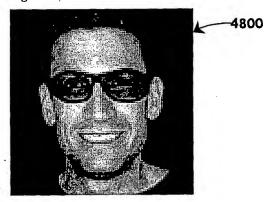
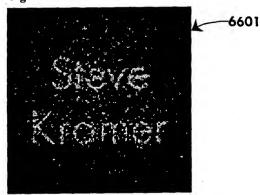


Figure 66b



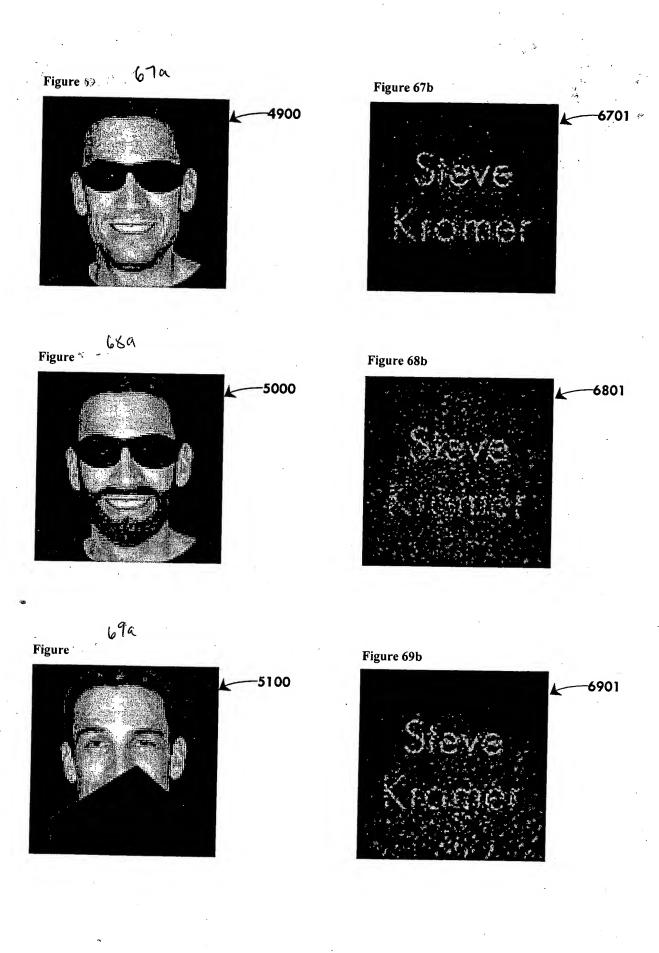
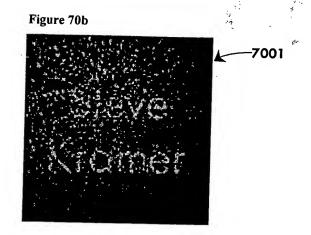
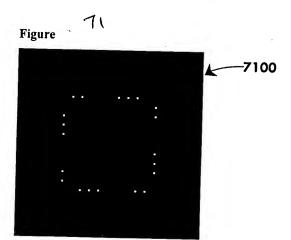
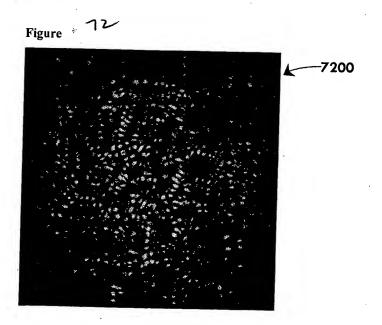
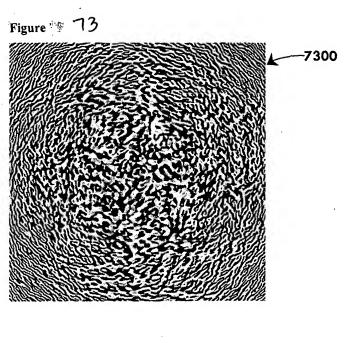


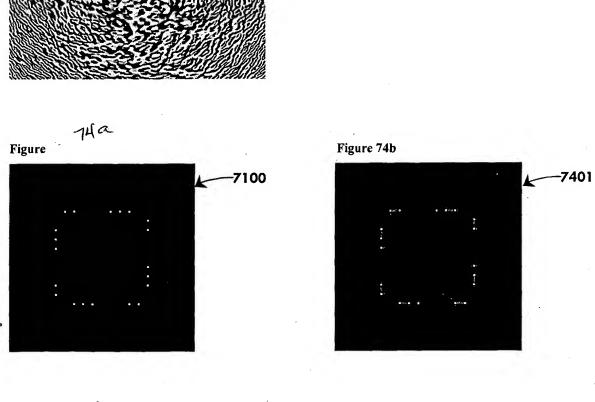
Figure 70 a 5200

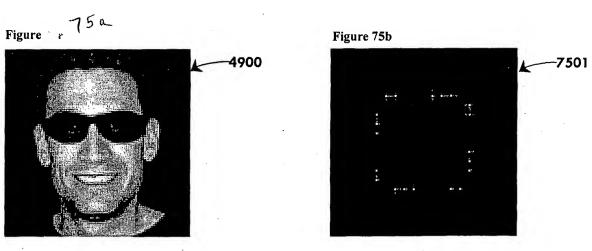


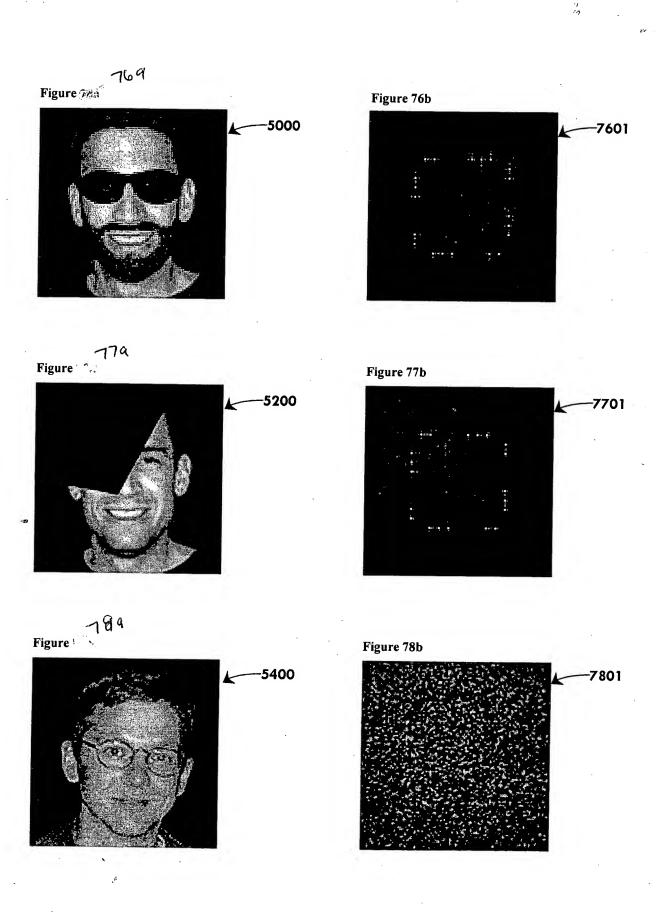




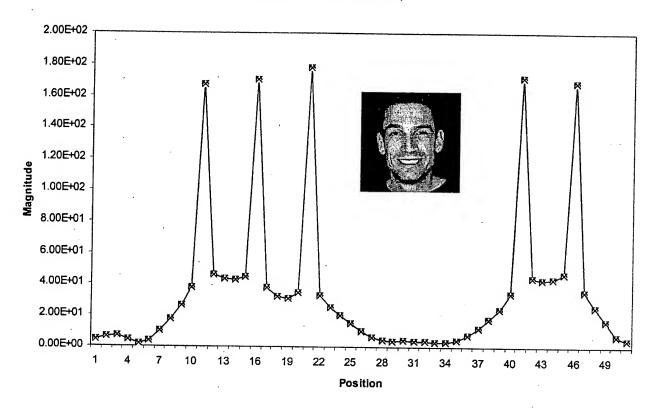




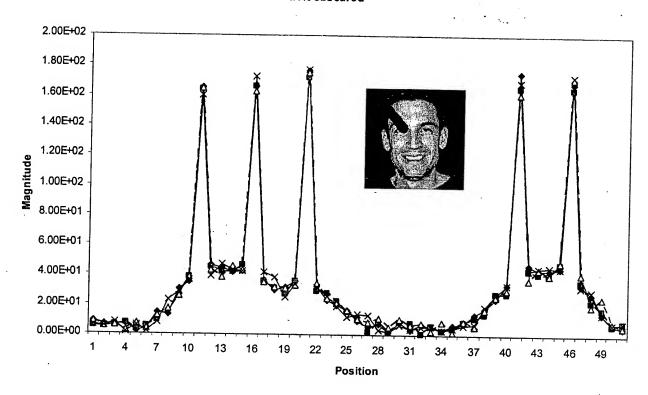




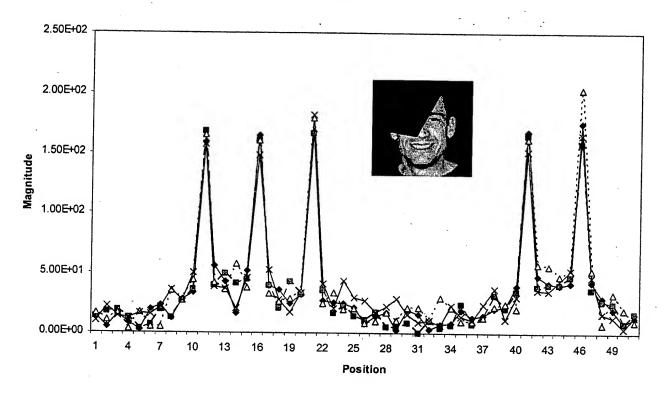
IIP Reconstruction (Steve K.)



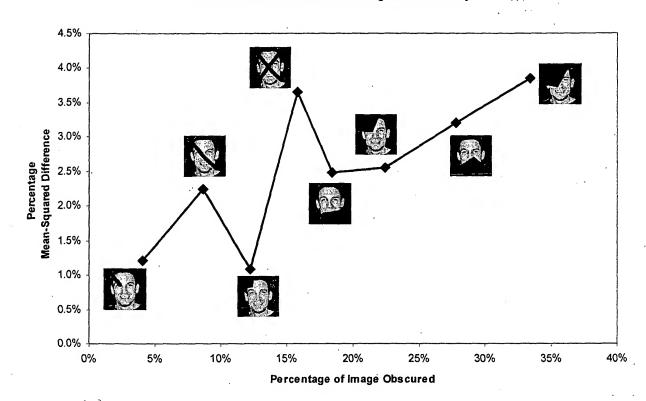
IIP Reconstructi n (Stev K 1) 4.1% obscured



IIP Reconstruction (Stev K. 7) . 33.4% bscured



IIP Reconstruction as a Function of Degree of Obscurity



-8301

Figure : 3800

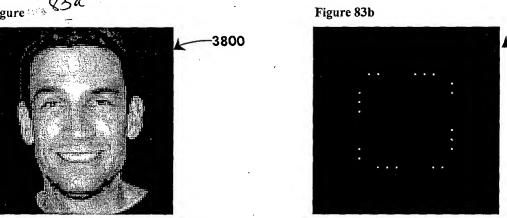
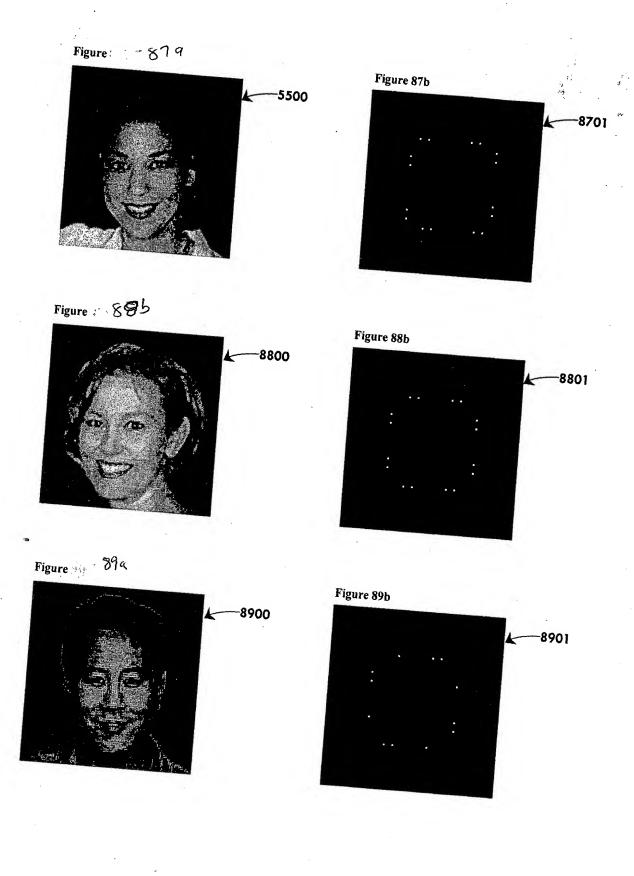
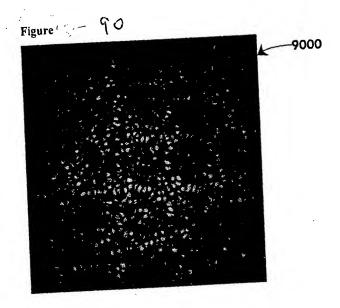
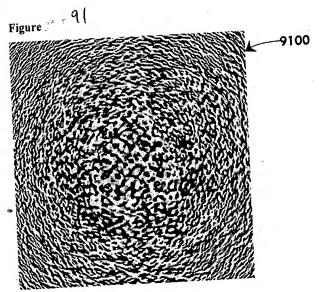
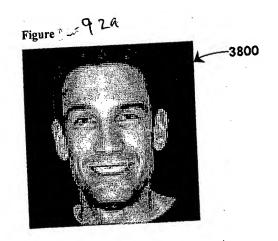


Figure # CYA Figure 84b -5300 Figure Mr. 85a Figure 85b 8500 Figure () Figure 86b -8601 5400









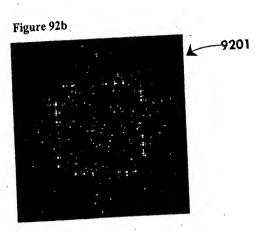
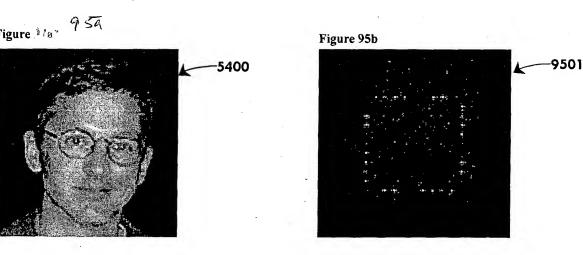
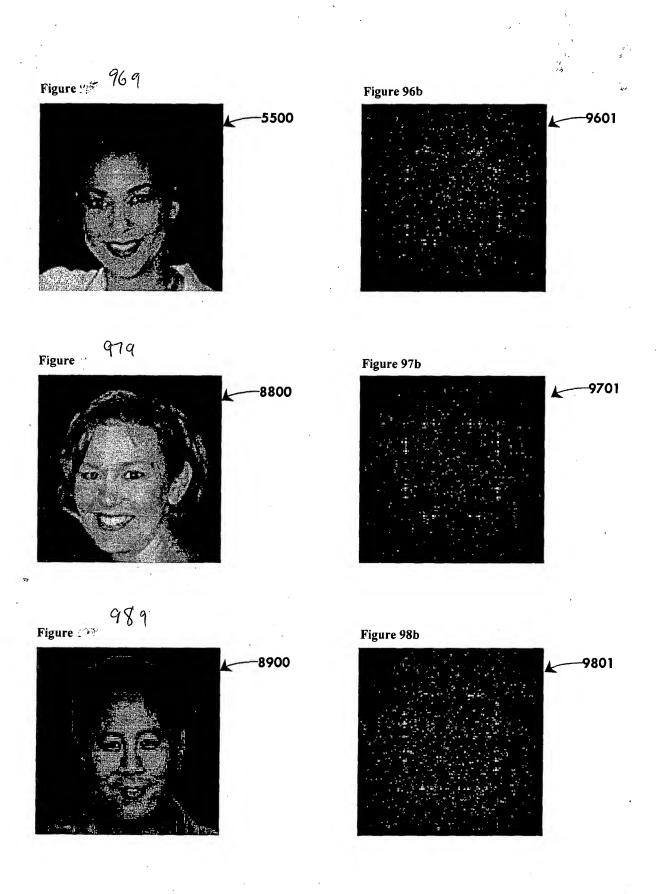
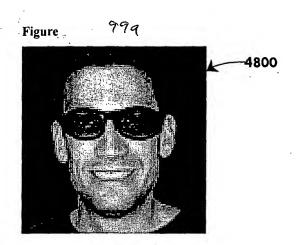
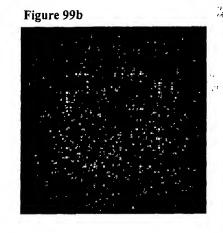


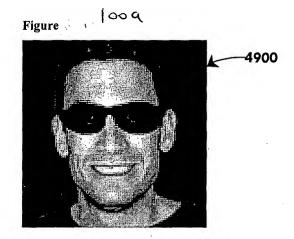
Figure 939 Figure 93b -5300 Figure 949 Figure 94b Figure Mar 9 54 Figure 95b

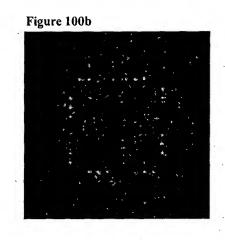


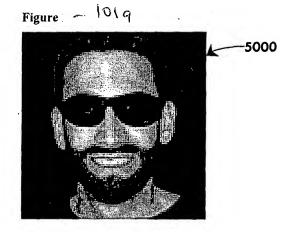












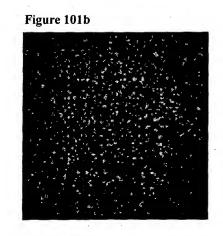
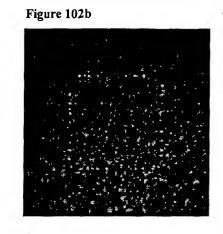
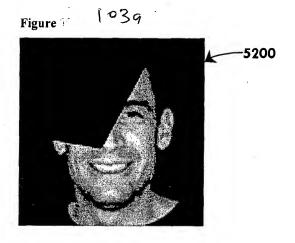
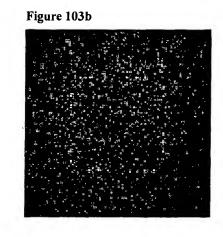
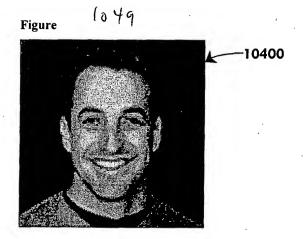


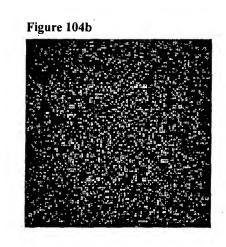
Figure 1029











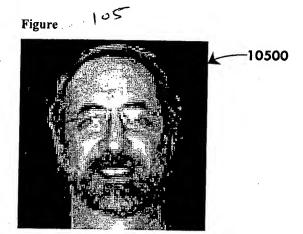


Figure 60 G

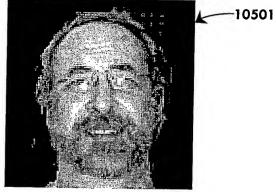


Figure 107

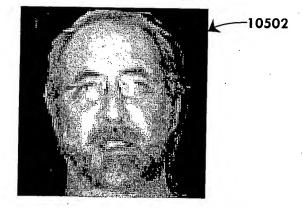


Figure 1.40 - 108

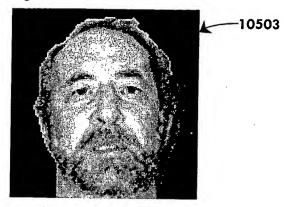
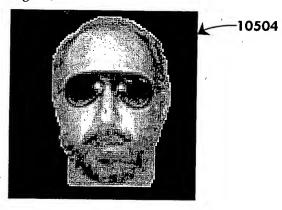
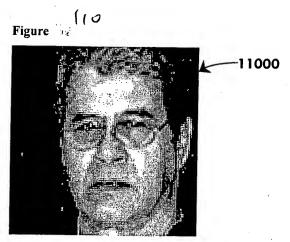
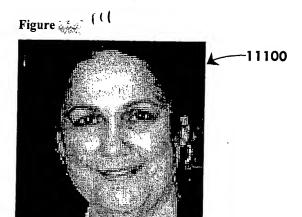
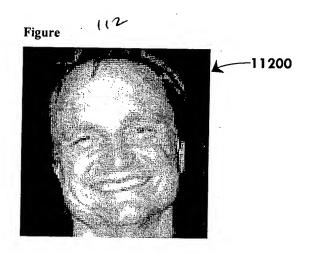


Figure 109









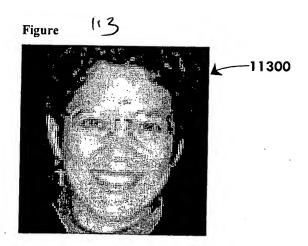
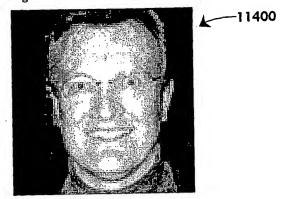


Figure : 114



Figure

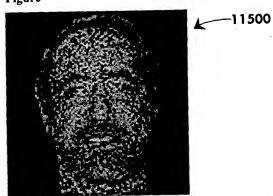
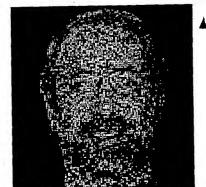
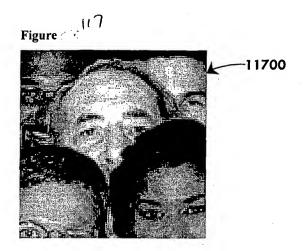
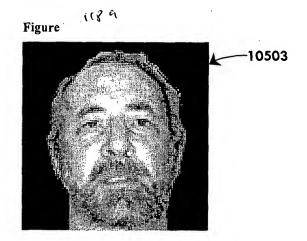
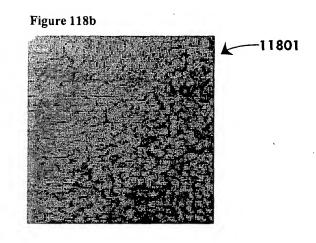


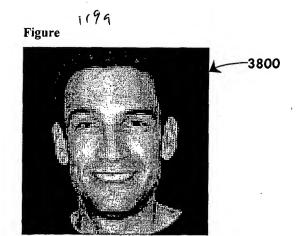
Figure - 114

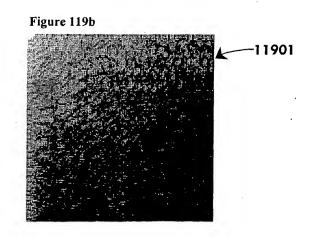


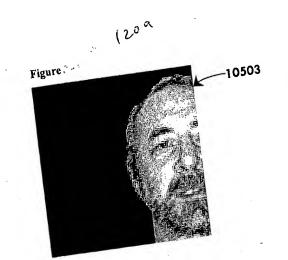


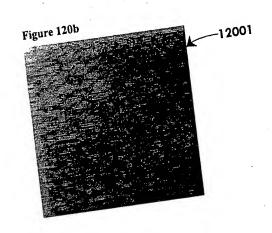


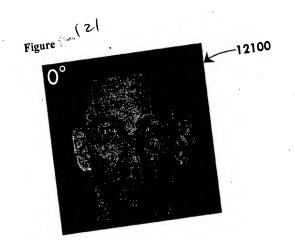












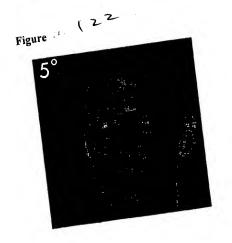
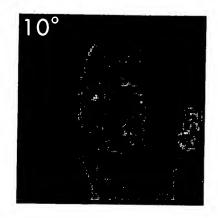


Figure (23



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Figure

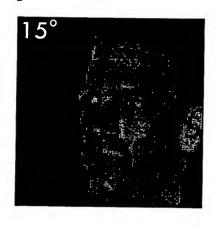


Figure .

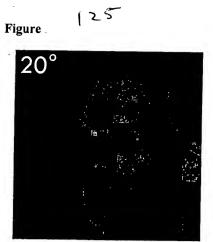
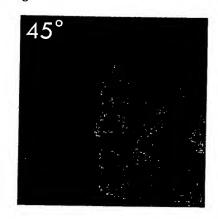
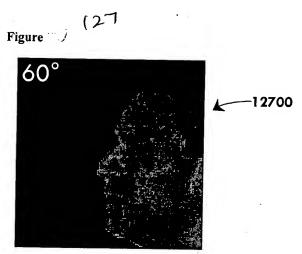


Figure (200





228

Figure

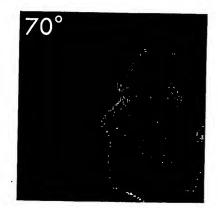


Figure (29

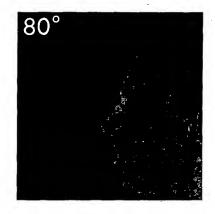


Figure 130

90°

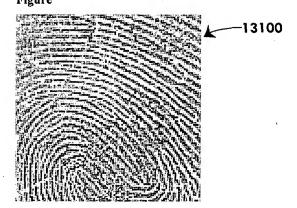


Figure 15% | 32



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Figure 3



134

Figure

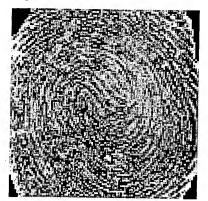
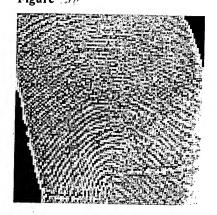


Figure 3% 135



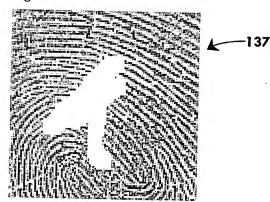
136

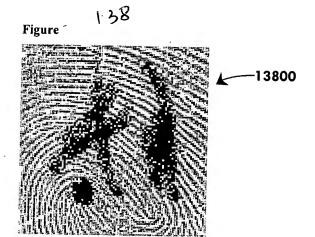
Figure

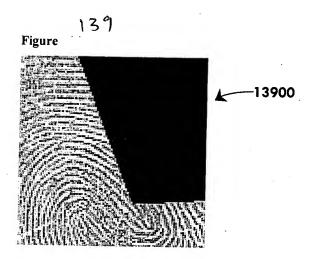


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Figure







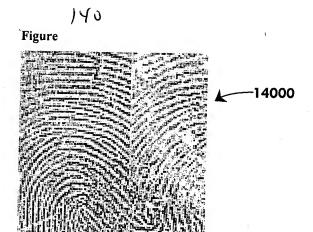


Figure 14(

Figure

143

Figure

Figure .

Figure 145

Stephen

146

Figure

Stephen K 14600

Figure 147

Stephen

148

Figure

Stephen

Figure 149

Stephen

Figure (50

(51 Figure

Flowchart for software embodiment: Overall Control

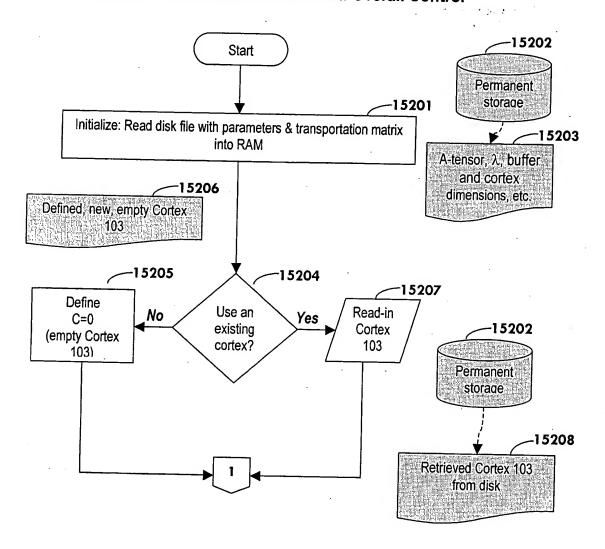
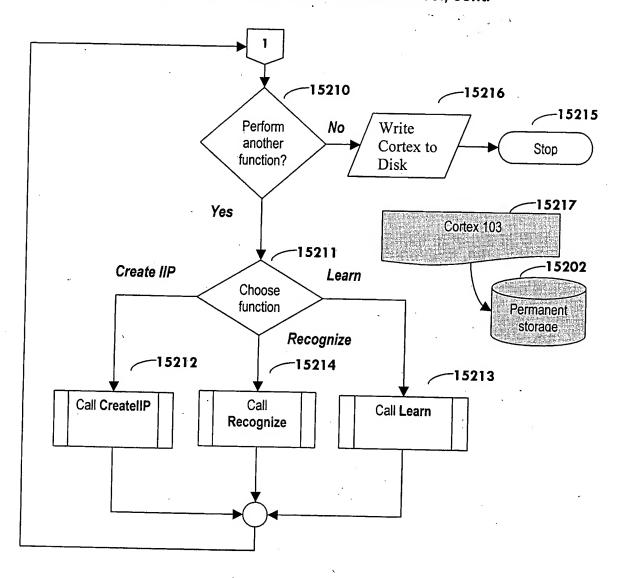
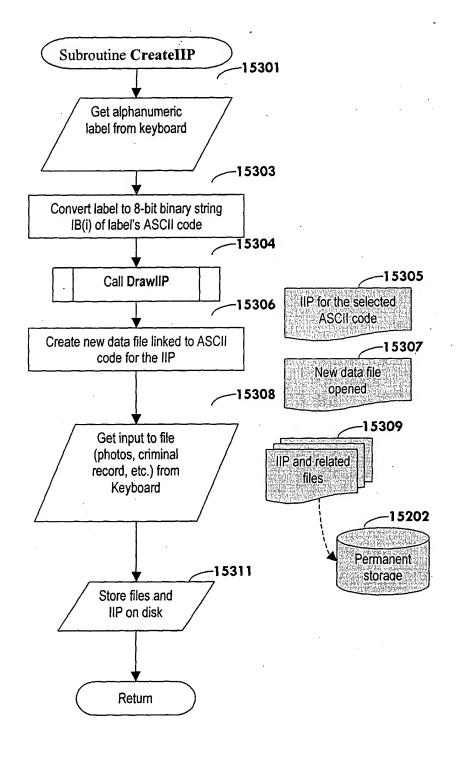


Fig. 152b

Flowchart for software embodiment: Overall Control, cont.



Flowchart for software embodiment: Create IIP



Flowchart for softwar mbodiment: Learn

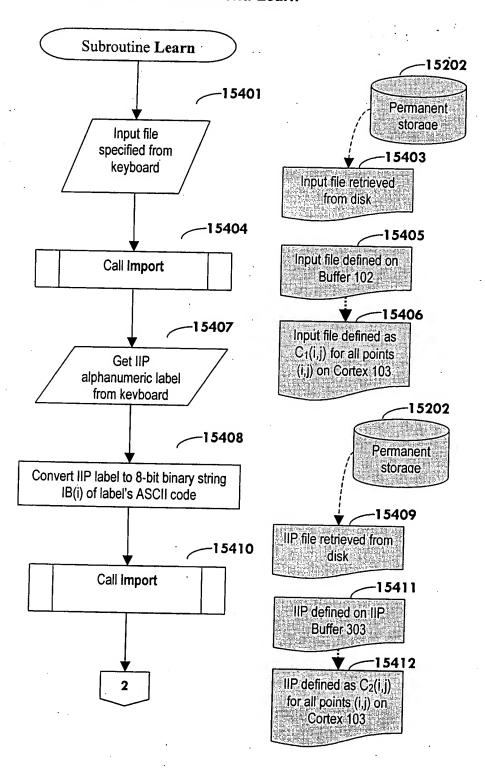
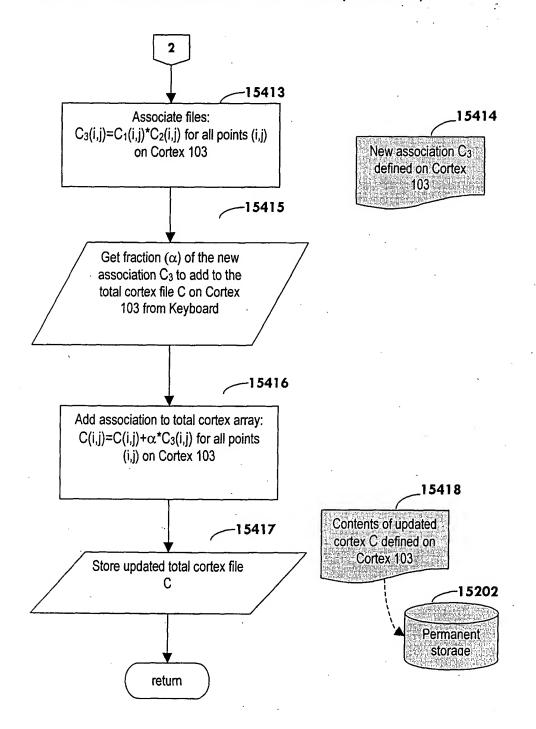
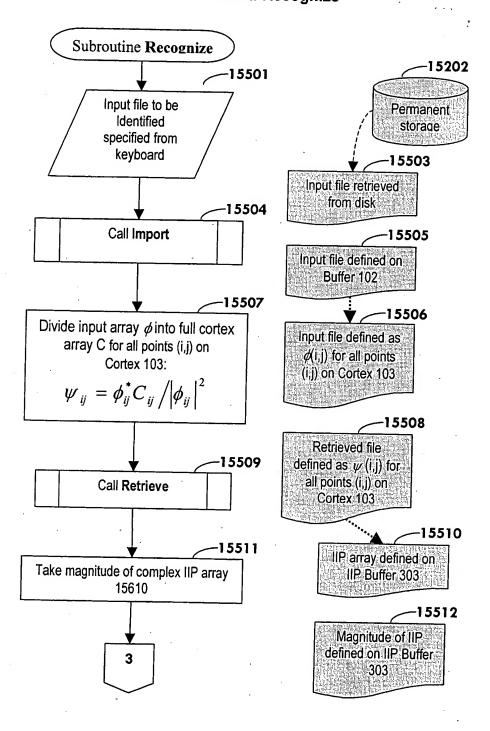


Figure 154b

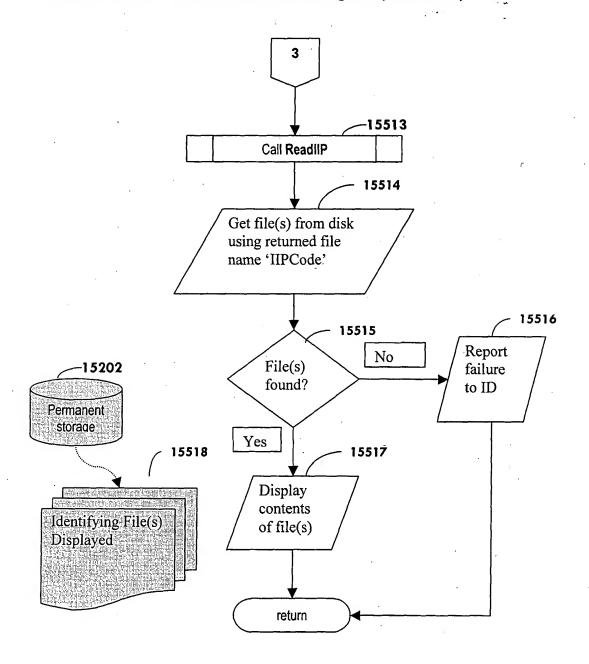
Flowchart for software embodiment: Learn (continued)



Flowchart for software embodiment: Recognize



Flowchart for software embodiment: Recognize (continued)



Flowchart for software embodiment: Draw IIP

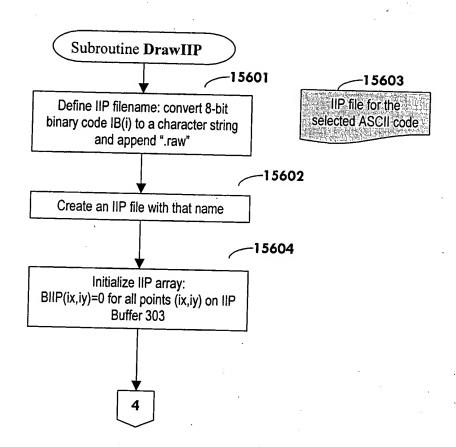
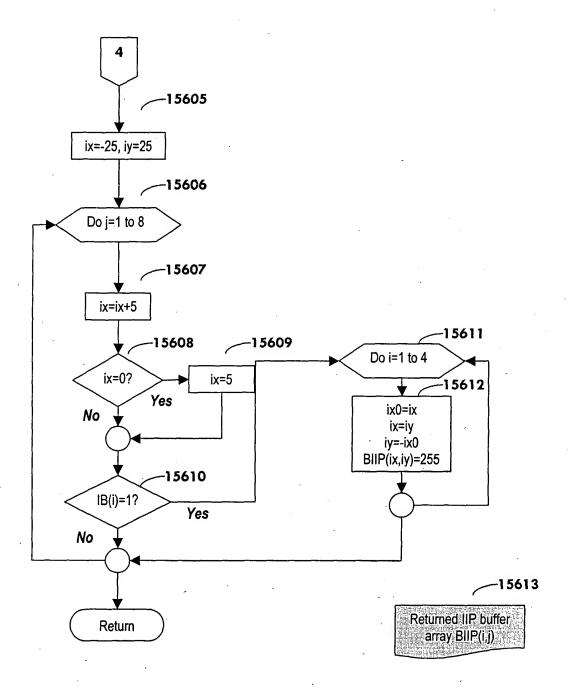
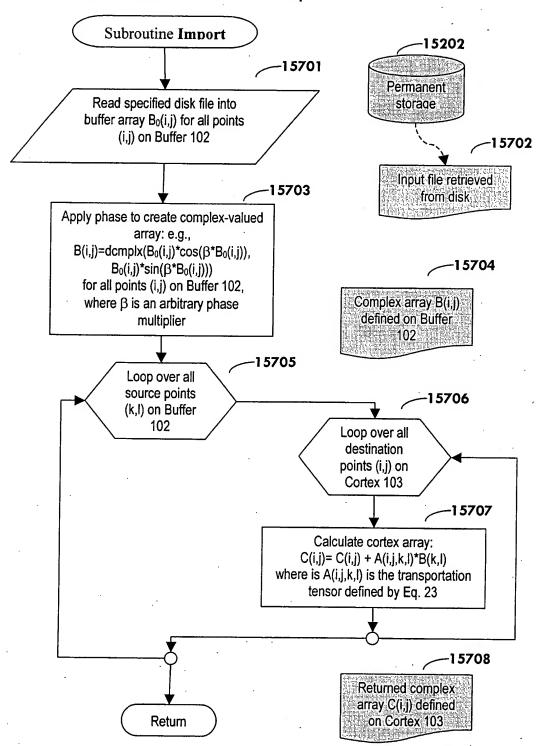


Figure 156b

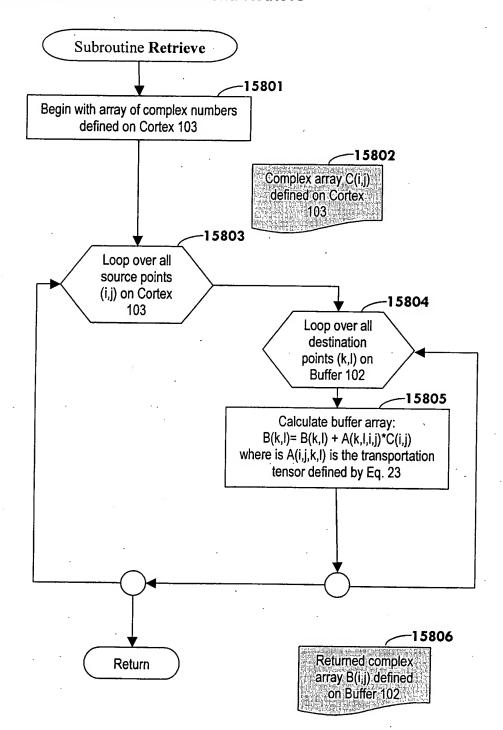
Flowchart for software embodiment: Draw IIP continued



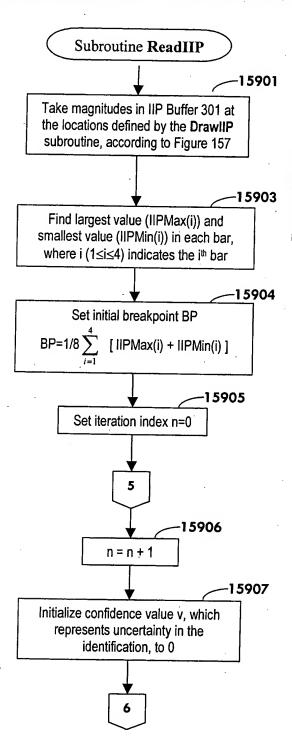
Flowchart for software embodiment: Import



Flowchart for software embodiment: Retrieve



Flowchart for software mbodiment: Read IIP



Raw IIP values IIPRaw(i,j);
where i (1≤i≤4) indicates the
ih bar and j (1≤j≤8) indicates
the ih bit

Flowchart for software embodiment: Read IIP (continued)

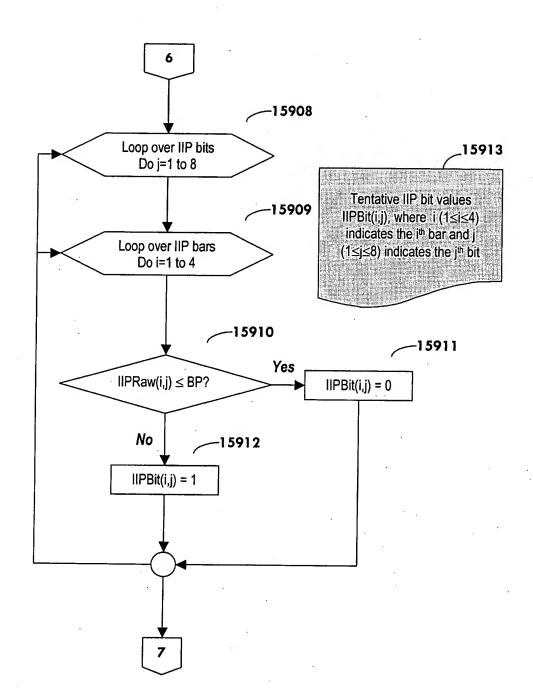


Figure 159c
Flowchart for software embodiment: Read IIP (continued)

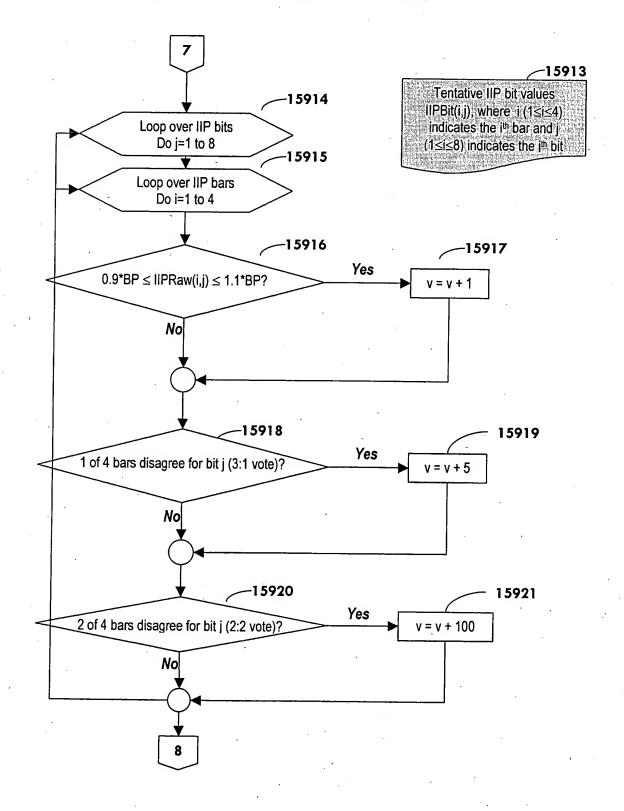


Figure 159d

Flowchart for software embodiment: Read IIP (continued)

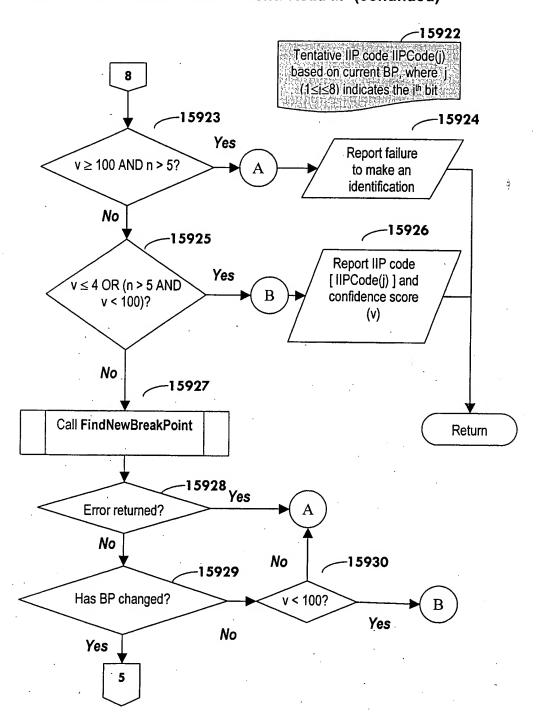


Figure 160

Flowchart for software embodiment: Find New BreakPoint

